

Title (en)
Treatment of surfaces by barrier discharge

Title (de)
OBERFLÄCHENBEHANDLUNG MIT BARRIERENENTLADUNG

Title (fr)
TRAITEMENT DE SURFACES PAR UNE DECHARGE A BARRIERE DIELECTRIQUE

Publication
EP 0722513 B1 20000126 (DE)

Application
EP 94927495 A 19940927

Priority

- DE 9401132 W 19940927
- DE 4332866 A 19930927
- DE 4404034 A 19940203

Abstract (en)
[origin: WO9509256A1] A process for treating, in particular cleaning, surfaces, in particular foils and metallic surfaces, is disclosed. Such surfaces are in general covered with a film of oil or grease immediately after they are produced. Grease and oil must however be removed before the surfaces or foils can be further processed, in order to ensure a perfect coating or gluing. In order to achieve this aim in a short time and with low energy consumption, a dielectrically blocked discharge (12, 2, 3, 13a) acts on the surface of the foil web (10), for example. The action of high-energy loaded particles and of photons from the UV spectral domain removes the film of oil or grease in a short time already, so that further processing (coating or gluing) is possible without causing an increased energy consumption nor damaging the surface. Disinfection/sterilisation are also considered as surface cleaning processes.

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Citation (examination)

- US 4446110 A 19840501 - AHLBRANDT ANDREAS [DE]
- J. Appl. Spectroscopy 41 (1984), Seiten 1194-1197

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